

ABSTRACT

The object of the present invention is to develop a technology to optionally control a composition of a biodegradable copolyester with maintaining low cost and high productivity.

The present invention consists in a culture method in producing a copolyester by a microorganism, which comprises controlling a specific substrate feed rate of an oil or fat to be used as a carbon source at a constant value throughout the whole culture period, or a method, which comprises applying a different specific substrate feed rate of an oil or fat used as a carbon source between a cell growth phase and a polyester accumulation phase in a culture and controlling the rate at a constant value during the respective phases. Furthermore, the present invention also consists in a culture method, which comprises controlling the composition of the produced copolyester by selecting the species and/or the control value for the specific substrate feed rate.

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